

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An electrical apparatus having a cooling system, the apparatus comprising:

a first cover ~~defining an enclosure for housing to cover a first part of the electrical apparatus~~  
to be cooled;

a second cover substantially enclosing the first cover to define a surrounding space  
there-between, the surrounding space having an inlet and an outlet;

a base plate on which the first cover is mounted to define an environmentally-sealed enclosure that houses the first part of the electrical apparatus to be cooled, the base plate having one or more apertures communicating with the surrounding space;

a first circulation device means for causing to cause air to circulate in the environmentally-sealed enclosure; and

a second circulation device means for causing to cause a cooling fluid to circulate around the surrounding space between the first and second cover adjacent the environmentally-sealed enclosure[[;]], wherein the second circulation device is arranged outside of the surrounding space;

a heat transfer structure means positioned on each side of the first cover between the enclosure and the surrounding space, such that heat is transferred from the environmentally-sealed enclosure to the cooling fluid in the surrounding space and out of the outlet; and

~~a base plate on which the first cover is mounted, the base plate having one or more apertures communicating with the surrounding space; and wherein the second circulation means are arranged outside of the surrounding space, such that there is a flow of cooling fluid adjacent the enclosure, through the one or more apertures and through the surrounding space~~

a third cover mounted to an opposite side of the base plate from the first cover to define a second enclosure that houses a second part of the electrical apparatus to be cooled; and

a heat exchange structure positioned within the second enclosure, wherein the second circulation device is arranged to drive cooling fluid both through the heat exchange structure to draw heat from the second enclosure, and through the surrounding space, via the one or more apertures, to draw heat from the environmentally-sealed enclosure.

2. (Currently Amended) An electrical apparatus according to claim 1, wherein the base plate and the first cover together define the environmentally sealed enclosure for the first part of the electronic apparatus, and wherein the ~~cooling system comprises~~ a heat exchange structure is disposed on the base plate outside the environmentally-sealed enclosure in the flow of cooling fluid.

3. (Currently Amended) An electrical apparatus according to claim 1, wherein the second circulation device means comprise comprises one or more fans mounted on the base plate.

4. (Currently Amended) An electrical apparatus according to claim 1, comprising a restriction in the flow of cooling fluid in the region of the one or more apertures, such that fluid pressure forces cooling fluid through the apertures.

5. (Original) An electrical apparatus according to claim 4, wherein the restriction comprises a heat transfer structure.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) An electrical apparatus according to claim 6, wherein the second part of the apparatus comprises a vacuum tube device.

9. (Currently Amended) An electrical apparatus according to claim 1, wherein the heat transfer structure means comprises a first heat exchanger ~~exchange structure~~ disposed on the inside of the first cover, within the enclosure.

10. (Currently Amended) A electrical apparatus according to claim 10, wherein the heat transfer structure means further comprises a second heat exchanger ~~exchange structure~~ disposed on the outside of the first cover, within the surrounding space.

11. (Currently Amended) An electrical apparatus according to claim 10, wherein the first and second heat exchangers ~~exchange structures~~ are mounted in correspondence with each other on opposite sides of the first cover.

12. (Currently Amended) An electrical apparatus according to claim 1, comprising an internal cover mounted in the environmentally-sealed enclosure creating a circulating fluid flow path in the environmentally-sealed enclosure.

13. (Currently Amended) An electrical apparatus according to claim 12, wherein the first circulation device means ~~are~~ is mounted on the internal cover.

14. (Currently Amended) An electrical apparatus according to claim 12, wherein the first cover comprises a heat exchanger ~~exchange structure~~ on its inside surface, within the environmentally-

sealed enclosure, and wherein the internal cover extends in the environmentally-sealed enclosure such that the circulating fluid flow path passes through the heat exchanger ~~exchange structure~~.

15. (Currently Amended) An electrical apparatus according to claim 1, comprising path defining ~~means~~ structure disposed in the surrounding space defining a circulating path for the flow of the cooling fluid, between the one or more apertures and ~~[[an]]~~ the outlet.

16. (Currently Amended) An electrical apparatus according to claim 15, wherein the path defining ~~device~~ means comprises a ridge disposed on the first cover.

17. (Currently Amended) An electrical apparatus according to claim 15, wherein the path defining ~~device~~ means constrains the cooling fluid to flow substantially over the entirety of the surface of the environmentally-sealed enclosure.

18. (Currently Amended) An electrical apparatus according to claim 1, comprising a breather tube housed in the first cover ~~surface~~, a chamber in communication with the breather tube and with the enclosure, and a desiccant material located in the chamber.

19. (Previously Presented) An electrical apparatus according to claim 1, having a fluid inlet and a fluid outlet in communication with the surrounding space.

20. (Previously Presented) An electrical apparatus according to claim 1, wherein the cooling fluid is air.

21. (Previously Presented) An electrical apparatus according to claim 1, wherein the first cover is metal.
22. (Previously Presented) An electrical apparatus according to claim 1, wherein the second cover is a plastic material.
23. (Previously Presented) An electrical apparatus according to claim 1, wherein the first and second cover have smoothed corners.
24. (Currently Amended) An electrical apparatus according to claim 1, wherein the outlet joins the fluid flow path adjacent the environmentally-sealed enclosure.
25. (Previously Presented) A high power radio frequency amplifier comprising the electrical apparatus of claim 1.
26. (Previously Presented) A satellite uplink amplifier comprising the electrical apparatus of claim 1.